

Asst. Prof. GÜLŞAH SEDEFOĞLU

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 274137

Education

Doctorate, Istanbul University, Sosyal Bilimler Enstitüsü, Ekonometri (Dr), Turkey 2017 - 2021

Doctorate, Universite Libre de Bruxelles, European Center for Advanced Research in Economics and Statistics, Belgium
2020 - 2020

Postgraduate, Marmara University, Sosyal Bilimler Enstitüsü, Ekonometri (YI) (Tezli), Turkey 2014 - 2016

Undergraduate, Marmara University, Faculty Of Economics, Econometrics, Turkey 2009 - 2014

Undergraduate, Budapest Teknoloji ve Ekonomi Üniversitesi, Hungary 2013 - 2013

Certificates, Courses and Trainings

Other, Data Stream and Monitoring, Université Catholique de Louvain, 2020

Other, HCEO Summer School on Socioeconomic Inequality, The University of Chicago, 2019

Other, Sustainability and Globalization,, Schola Empirica Prague Summer Schools, 2018

Other, Barcelona Summer School, Bayesian Time Series Methods: Introductory, Graduate School of Economics (GSE),
2018

Other, Oxford Poverty & Human Development Initiative (OPHI) Multidimensional Poverty Analysis, University of Oxford,
2017

Dissertations

Doctorate, Kademeli kırılmalı eşbütünleşme testleri: Doğrusal olmayan eşbütünleşme testi önerisi, Istanbul University,
Sosyal Bilimler Enstitüsü, Ekonometri (Dr), 2021

Postgraduate, Yoksulluk ve gelir eşitsizliğinin Bayesyen logit modeli ile incelenmesi: Türkiye uygulaması, Marmara
University, Sosyal Bilimler Enstitüsü, Ekonometri (YI) (Tezli), 2016

Research Areas

Econometrics

Academic Positions

Assistant Professor, Istanbul Commerce University, İnsan ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2022 - Continues

Researcher, Université Mohammed V - Agdal, Laboratory of Economic Analysis and Modelling (LEAM), 2024 - 2024

Researcher, Faculty of Business Administration, 2023 - 2023

Researcher, Université Libre de Bruxelles, European Center for Advanced Research in Economics and Statistics, 2020 - 2020

Researcher, Faculty of Applied Informatics and Mathematics, Department of Econometrics and Statistics, 2019 - 2019

Research Assistant, Ozyegin University, Havacılık ve Uzay Bilimleri Fakültesi, 2016 - 2019

Academic and Administrative Experience

Rectorate Commissioner, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2025 - Continues

Program Accreditation-Self-Assessment Committee Member, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2024 - Continues

Member of Department Quality Commission, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2024 - Continues

Internship Committee Member, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2024 - Continues

Erasmus Program Department Coordinator, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, İstatistik Bölümü, 2022 - Continues

Courses

Postgraduate

Prediktif Modeller ve Analitiği, Postgraduate, 2023 - 2024

Regresyon Teknikleri, Postgraduate, 2023 - 2024

Çok Değişkenli Veri Analizi, Postgraduate, 2022 - 2023

Regresyon Teknikleri, Postgraduate, 2022 - 2023

Uygulamalı Modelleme Teknikleri, Postgraduate, 2022 - 2023

Undergraduate

Bitirme Projesi, Undergraduate, 2023 - 2024

Sosyal ve İktisadi İstatistikler, Undergraduate, 2023 - 2024

Statistical Analysis, Undergraduate, 2023 - 2024

Ekonometri 2, Undergraduate, 2023 - 2024

Zaman Serileri Analizi, Undergraduate, 2023 - 2024

EKONOMETRİDE PAKET PROGRAMLAR, Undergraduate, 2023 - 2024

Statistics 2, Undergraduate, 2023 - 2024

Ekonometri 1, Undergraduate, 2023 - 2024

İstatistik Tarihi, Undergraduate, 2023 - 2024

Bitirme Projesi, Undergraduate, 2022 - 2023

İstatistik 2, Undergraduate, 2022 - 2023

İktisat, Undergraduate, 2022 - 2023

Zaman Serileri Analizi, Undergraduate, 2022 - 2023

Uygulamalı İstatistik 1, Undergraduate, 2023 - 2024

Sosyal ve İktisadi İstatistikler, Undergraduate, 2022 - 2023

PANEL VERİ ANALİZİ, Undergraduate, 2023 - 2024

İktisat, Undergraduate, 2023 - 2024

EKONOMETRİDE PAKET PROGRAMLAR, Undergraduate, 2022 - 2023

İstatistiksel Yöntemler, Undergraduate, 2022 - 2023
Econometrics, Undergraduate, 2022 - 2023
Panel Veri Analizi, Undergraduate, 2022 - 2023
Tanımsal İstatistik, Undergraduate, 2022 - 2023
Uygulamalı İstatistik 1, Undergraduate, 2022 - 2023
Ekonometri 2, Undergraduate, 2022 - 2023

Supervised Theses

Sedefoğlu G., Türkiye'de Tüketici Güven Endeksi ve Makroekonomik Değişkenler Arasındaki Uzun Dönem İlişki: Doğrusal ve Doğrusal Olmayan Eşbütünleşme Testlerinden Kanıtlar, Postgraduate, Z.Hüsna(Student), Continues

Advising Graduates (Non-Thesis)

Sedefoğlu G., Bankacılıkta Müşteri Sadakati ve Müşteri Memnuniyeti arasındaki İlişki, Masters (Non-Thesis), A.Avan(Student), Continues

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, January, 2025
Doctorate, Doctorate, İstanbul Üniversitesi, December, 2024
Doctorate, Doctorate, İstanbul Üniversitesi, November, 2024
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2024
Post Graduate, Post Graduate, Marmara Üniversitesi, January, 2024
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2024
Doctorate, Doctorate, İstanbul Üniversitesi, September, 2023
Post Graduate, Post Graduate, İstanbul Ticaret Üniversitesi, January, 2023
Post Graduate, Post Graduate, Marmara Üniversitesi, January, 2023

Journal articles indexed in SCI, SSCI, and AHCI

- I. **A proposal of nonlinear cointegration test with the flexible Fourier approach**
GÜRİŞ B., Sedefoğlu G.
Communications in Statistics: Simulation and Computation, vol.53, no.5, pp.2108-2118, 2024 (SCI-Expanded)

Articles Published in Other Journals

- I. **A STAR-based Cointegration Analysis of Globalization and Air Transport in Türkiye**
Sedefoğlu G.
Research in World Economy, vol.15, no.1, pp.17-24, 2024 (Peer-Reviewed Journal)
- II. **Incorporating "Security" in Sustainable Development Goals (SDG): Insights from FoodSecurity and Climate Change**
Genç Yılmaz A., Sedefoğlu G.
BULLETIN OF CAROL I NATIONAL DEFENSE UNIVERSITY, vol.13, no.4, pp.22-36, 2024 (Peer-Reviewed Journal)
- III. **The Fourier approach and testing for cointegration in LSTAR model**
SEDEFOĞLU G., GÜRİŞ B.

Model Assisted Statistics and Applications, vol.19, no.1, pp.71-79, 2024 (Scopus)

- IV. **Testing the Validity of the Purchasing Power Parity (PPP) Hypothesis for Türkiye: Linear and Nonlinear Unit Root Tests**
Sedefoğlu G., Özden Ü. H.
Quantitative Methods in Economics, vol.25, no.1, pp.1-9, 2024 (Peer-Reviewed Journal)
- V. **MATERIAL AND SOCIAL DEPRIVATION IN THE EUROPEAN UNION: COUNTRY-LEVEL ANALYSIS**
SEDEFOĞLU G., Dudek H.
Economics and Sociology, vol.17, no.1, pp.23-35, 2024 (ESCI)
- VI. **Past and current trends in defining and measuring poverty in the EU**
Sedefoğlu G.
Rosenheim Papers in Applied Economics and Business Sciences, pp.1-12, 2023 (Peer-Reviewed Journal)
- VII. **UNEMPLOYMENT HYSTERESIS IN TURKEY: EVIDENCE FROM NONLINEAR UNIT ROOT TESTS WITH FOURIER FUNCTION**
Sedefoğlu G., Güriş B.
QUANTITATIVE METHODS IN ECONOMICS, vol.20, 2019 (Peer-Reviewed Journal)
- VIII. **Modelling severe material deprivation rates in EU regions using fractional response regression**
SEDEFOĞLU G., Dudek H.
REGIONAL STATISTICS, vol.9, pp.130-147, 2019 (Scopus)
- IX. **Self-Reported Health Status: A Microeconometric Analysis for Turkey**
SEDEFOĞLU G., SOYTAŞ M. A.
QUANTITATIVE METHODS IN ECONOMICS, vol.19, no.4, pp.440-451, 2018 (Peer-Reviewed Journal)
- X. **The Causality Analysis of Air Transport and Socio-economics Factors: The Case of OECD Countries**
SEDEFOĞLU G., KÜÇÜKÖNAL H.
Transportation Research Procedia, vol.28, pp.16-26, 2018 (Scopus)
- XI. **What does Bayesian probit regression tell us about Turkish female- and male-headed households poverty?**
SEDEFOĞLU G., ÇAĞLAYAN AKAY E.
JOURNAL OF INTERNATIONAL STUDIES, vol.10, no.1, pp.46-62, 2017 (Scopus)
- XII. **Determinants of Poverty on Household Characteristics in Turkey: A Heteroskedastic Probit Model**
ÇAĞLAYAN AKAY E., SEDEFOĞLU G.
The Empirical Economics Letter, vol.16, no.6, 2016 (Peer-Reviewed Journal)

Books

- I. **DOĞRUSAL OLMAYAN EŞBÜTÜNLEŞME TESTLERİ VE YAPISAL KIRILMALARIN MODELLENMESİ ÜZERİNE BİR DEĞERLENDİRME**
Sedefoğlu G.
in: TEORİK VE UYGULAMALI GÜNCEL EKONOMETRİK TEKNİKLER, KIZILKAYA OKTAY, KONAT GÖKHAN, Editor, Gazi Kitabevi, Ankara, pp.71-90, 2024
- II. **Examining Health Status of Females in Urban and Rural Areas in Turkey: A Bayesian Approach**
SEDEFOĞLU G., SOYTAŞ M. A.
in: Current Debates in Economics and Econometrics, Şiriner İsmail, Koç Şevket Alper, Yıldız Hilal, Editor, IJOPEC Publication, pp.103-124, 2017

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Business surveys for climate indicators and seasonal adjustment: Several new results**
Sedefoğlu G., Melard G.
4th Workshop on Time Series Analysis for Official Statistics , Paris, France, 5 - 06 December 2024, pp.1-2,

(Summary Text)

- II. **Türkiye’de Tüketici Güven Endeksi ve Enflasyon Arasındaki İlişki: ESTAR ve Fourier ESTAR Eşbütünleşme Testlerinden Kanıtlar**
Sedefoğlu G., Akbal Z. H.
8th International Researchers, Statisticians and Young Statisticians Congress, 28 - 30 November 2024, pp.1-11, (Full Text)
- III. **Kalkınma, sürdürülebilir kalkınma ve güvenlik:Türkiye üzerinden notlar**
Sedefoğlu G., Genç Yılmaz A.
Türkiye Ekonomisi Çalıştayı: Yapısal Sorunlar ve Çözüm Önerileri (Prof. Dr. Osman Aydoğuş Anısına), İzmir, Turkey, 2 - 03 May 2024, (Summary Text)
- IV. **Material Deprivation in The European Union: Country-Level Analysis**
SEDEFOĞLU G., Dudek H.
The 24th International Scientific Conference Quantitative Methods in Economics 2023, Varşova, Poland, 21 June 2023, (Summary Text)
- V. **THE FOURIER APPROACH AND TESTING FOR COINTEGRATION IN LSTAR MODEL**
SEDEFOĞLU G.
The 10th International Days of Econometrics for Finance, Rabat, Malta, 26 April 2023, (Summary Text)
- VI. **FOURIER ESTAR EŞBÜTÜNLEŞME TESTİ VE BİR UYGULAMA ÖRNEĞİ**
SEDEFOĞLU G.
International Marmara Social Sciences Congress (IMASCON), Kocaeli, Turkey, 09 December 2022, (Full Text)
- VII. **Business surveys and seasonal adjustment: The need for more detailed series**
SEDEFOĞLU G., Melard G.
2nd Workshop on Time Series Methods for Official Statistics, Paris, France, 22 September 2022
- VIII. **Testing for cointegration in STAR models: An empirical example from Turkey**
SEDEFOĞLU G., GÜRİŞ B.
The 23th Conference on Quantitative Methods in Economics 2022, Varşova, Poland, 09 September 2022, (Summary Text)
- IX. **Yapısal Kırılmaların Fourier Yaklaşımı ile Modellenmesi: Fourier ESTAR Eşbütünleşme Testi ve Uygulama Örneği**
SEDEFOĞLU G.
Why R? Turkey, Turkey, 15 April 2022, (Summary Text)
- X. **Kademeli Kırılmalı Doğrusal Olmayan Eşbütünleşme Testi Önerisi**
SEDEFOĞLU G., GÜRİŞ B.
XXI. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, Turkey, 08 September 2021, (Summary Text)
- XI. **A proposal of nonlinear cointegration test with gradual structural changes**
SEDEFOĞLU G., GÜRİŞ B.
Professor Zygmunt Zieliński International Conference Dynamic Econometric Models, Torun, Poland, 06 September 2021, (Summary Text)
- XII. **Business surveys and repeated surveys: A simulation-based study**
SEDEFOĞLU G., Melard G.
Conference on New Techniques and Technologies for Statistics (NTTS21), Brüksel, Belgium, 09 March 2021, (Summary Text)
- XIII. **A simulation based study for the business surveys seen as repeated surveys**
SEDEFOĞLU G., Melard G., Melard G.
21st Conference on Quantitative Methods in Economics 2020, Varşova, Poland, 28 September 2020, (Summary Text)
- XIV. **The Misery Index as A Macroeconomic Performance Indicator: A Convergence Analysis with Different Methods**
SEDEFOĞLU G., GÜRİŞ B.
21st Conference on Quantitative Methods in Economics 2020, Varşova, Poland, 28 September 2020, (Summary Text)

Text)

- XV. **Severe Material Deprivation Rates in EU Regions: A Fractional Response Regression Analysis**
SEDEFOĞLU G., Dudek H.
The Challenges of Analyzing Social and Economic Process in The 21st Century, International Scientific Conference, Szeged, Hungary, 07 November 2019, (Summary Text)
- XVI. **Modelling Smooth Breaks Using A Fourier Approach in The Nonlinear Unit Root Tests**
SEDEFOĞLU G., GÜRİŞ B.
20th Conference on Quantitative Methods in Economics, Varşova, Poland, 17 June 2019, (Summary Text)
- XVII. **Urban and Rural Differences in Self-Reported Health Status of Females: An Application for Turkey**
SEDEFOĞLU G., SOYTAŞ M. A.
II. Uluslararası Ekonomi, Finans ve Ekonometri Sempozyumu, 3 - 04 May 2018, (Summary Text)
- XVIII. **Türkiye’de İşsizlik Histerisinin Birim Kök Analizi ile Sınanması: Yüksekokul veya Fakülte Mezunu Kadın ve Erkekler Üzerine Bir Uygulama**
SEDEFOĞLU G., TIRAŞOĞLU M., GÜRİŞ B.
II. Uluslararası Ekonomi, Finans ve Ekonometri Öğrenci Sempozyumu, 3 - 04 May 2018, (Summary Text)
- XIX. **Examining Health Status of Females in Urban and Rural Areas in Turkey: A Bayesian Approach**
SEDEFOĞLU G., SOYTAŞ M. A.
6th International Congress on Current Debates in Social Sciences, 14 - 16 December 2017, (Full Text)
- XX. **A PANEL DATA ANALYSIS FOR ESTIMATING THE INFLUENCE OF HUMAN ACTIVITIES ON CO2 EMISSIONS**
SEDEFOĞLU G.
ICOMEF 17, Turkey, 17 - 18 November 2017, (Full Text)
- XXI. **The differences between female and male in reporting individual health status: The Case of Turkey**
SEDEFOĞLU G., SOYTAŞ M. A.
International Economics Research and Financial Markets Congress, Edirne, Turkey, 12 - 13 May 2017, (Full Text)
- XXII. **Analysis of gender differences in household poverty in Turkey: Bayesian Probit Model**
ÇAĞLAYAN AKAY E., SEDEFOĞLU G.
V. International Conference on Economics, Italy, 25 - 27 January 2017, (Summary Text)
- XXIII. **Effects of the Demographic and Socio-economics Characteristics of Household Heads on Poverty in Turkey: A Bayesian Approach**
SEDEFOĞLU G.
International Congress of Management, Economy and Policy (ICOMEF), İstanbul, Turkey, 26 - 27 November 2016, (Summary Text)
- XXIV. **A Bayesian Approach to Logistic Regression: Household Poverty in Turkey**
ÇAĞLAYAN AKAY E., SEDEFOĞLU G.
2nd International Annual Meeting of Socioeconomi Society, Amsterdam, Netherlands, 28 - 29 October 2016, (Summary Text)
- XXV. **Analysing Turkish Household Poverty using Bayesian Approach: Bayesian Logit Model**
SEDEFOĞLU G., ÇAĞLAYAN AKAY E.
17th International Symposium on Econometrics, Operations Research and Statistics, Sivas, Turkey, 2 - 04 June 2016, (Summary Text)
- XXVI. **Analysing the Relationship between Female Employment Rates and Economic Growth using Panel Causality Analysis across OECD Countries**
SEDEFOĞLU G.
V. Türkiye Lisansüstü Çalışmalar Kongresi, Isparta, Turkey, 12 - 15 May 2016, (Summary Text)
- XXVII. **The Analysis of Poverty Using Heteroscedastic Probit Model: The Case of Turkey**
ÇAĞLAYAN AKAY E., SEDEFOĞLU G.
All in One Conference: Second International Conference on New Trends in Econometrics and Finance, Zagreb, Croatia, 19 - 22 April 2016, (Full Text)
- XXVIII. **The Relationship between Female Employment Rates and Economic Growth across Euro Area: Panel Causality Analysis, Trakya**

SEDEFOĞLU G., Aslan P.

XVI. International Symposium on Econometrics, Operations Research and Statistics, Edirne, Turkey, 7 - 12 May 2015, (Summary Text)

Funded Projects

SEDEFOĞLU G., Project Supported by Higher Education Institutions, Yoksulluk ve Gelir Eşitsizliğinin Bayesyen Logit Modeli ile İncelenmesi: Türkiye Uygulaması, 2016 - 2017

Peer Reviews in Scientific Publications

Journal of Infrastructure, Policy and Development, Other Indexed Journal, November 2024

Bucak İşletme Fakültesi Dergisi, Other Indexed Journal, September 2024

Ekoist journal of econometrics and statistics (Online), Other journals, November 2023

İstanbul İktisat Dergisi, Other journals, September 2023

Economics and Business Review , Other Indexed Journal, April 2023

Scholarships

Erasmus Personel Hareketliliği, European Commission, 2023 - 2023

Erasmus+ Staj Hareketliliği, European Commission, 2015 - 2015

Erasmus+, European Commission, 2013 - 2013